

significantly until the incident angle is large than 20°. It is also noted that the peak reflectivity of the broad-angle ML mirror is less than the current mirror.

[0025] However, if the broad angle mirror is replacing only one of 6 mirrors in the system, the overall throughput loss is fairly small. Figure 5 shows the phase shifts as a function of incident angle for the broad-angle ML mirror. Notice that less than 20° phase shifts occur at approximately the 20° incident angle. The reflectivity as a function of wavelength for the broad-angle ML mirror is also shown in Figure 6.

Table 1

BHayer # # Sep	12 POMaterial Transmission	*Thickness [nm]	がずよ:Material : ** かままき	Thickness [nm]
0	Substrate Si	10.48		
1 1	Mo	11.29	Si	3.49
2	Mo __ ,	3.74	Si	3.5
3	Mo	3.73	Si.	10.44
4	Mo	3.69	Si	3.48
5 8	Mo	3.56	Si	7.64
	Mo.	3.46	Si	3.5
7	Mo	3.63	Si	3.57
8	Mo	3.62	· Si	3.6
9	Мо	3.62	Si	3.63
10	Mo 1	3.6	Si	3.66
11	Мо	3.56	Si	3.69
12	Mo_ ·	3.52	Si	3.74
13	Мо	3.44	Si	3.83
14	Mo ·	3.26	Si	4.06
15	Mo	2.41	Si	8.33
16	Мо	3.07 ·	Si	3.85
17	Мо	3.42	Si	3.75
18	Мо	3.5	Si	3.72
19	Мо	3.53	Si	3.71
20	Мо	3.53	Si	3.72
21	Мо	3.53	și Si	3.72
22 (Мо	3.52	Si	3.73
23 `	Mo	3.51	Si Si Si Si	3,74
24	Mo _.	3.49	Si	3.75
25	Mo .	3.48	Sji	3.76
26	Mọ	3.46		3.78
27	· Mo	3.44	Si Si Si Si	3.79
28	Мо	3.41	Śi	3.81
29	Mo	3.38	SI	3.83
30	Mo	3.35	Ši	3.86
31	Mo	3.31	Si	3.89
32	Mo	3.26	Si	3.92
33	Mo	3.19	Si	3.97
34	Mo	3.11	Si	4.03
Docket No. 04	2390.P190280	3	Si	4.1
Express Mail	No. EV306655101US	-3 <u>6</u> 1		Application